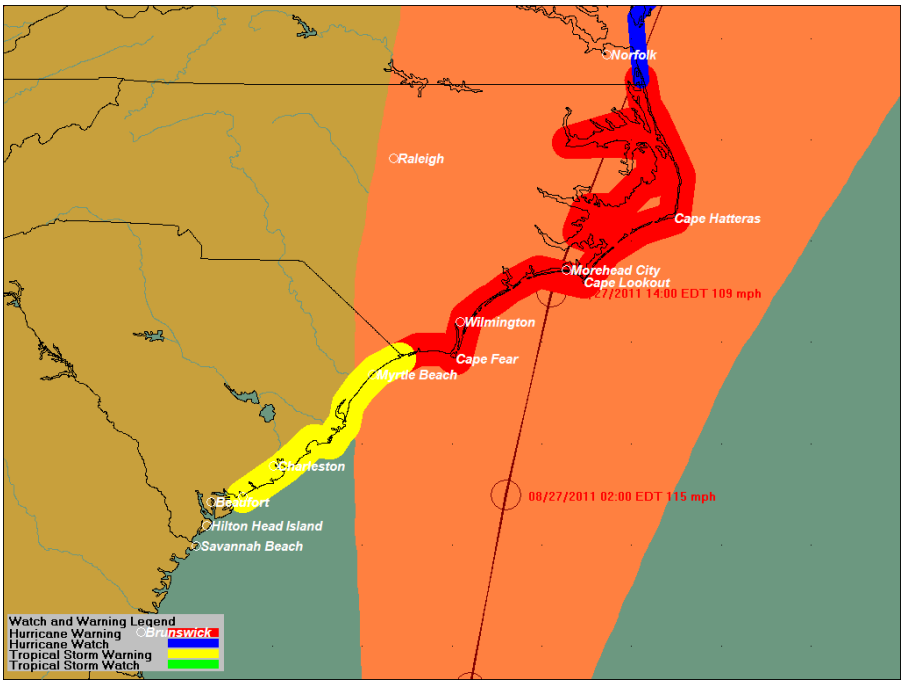


Description of impact to Morehead City, NC

Morehead City, NC is expected to receive a major impact from Hurricane IRENE.

Easterly gale force winds should start affecting the area on Friday, August 26th at 6 PM EDT with storm force winds arriving around 5 AM and Easterly hurricane force winds arriving near 9 AM. The highest wind speeds from Hurricane IRENE should occur near 2 PM when top sustained winds, from the East, could reach 109 MPH with gusts near 136 MPH. Winds should decrease below hurricane force 4 hours later.

Sustained winds will fall below gale force after 3 AM and generally be from the North during this period of decreasing winds. Expect gusts above gale force level for several more hours thereafter.

Wind damage from Hurricane IRENE could be quite extensive with some homes shifted off of their foundation, roofs removed and collapse of some exterior walls.

The total rainfall for the Morehead City area over the next 3 days is forecast to be 12.4 inches. This can vary significantly as tropical storm and hurricane rainfall is very difficult to predict.

Latest Position: 534 mi. South (184 degrees) of Morehead City, NC

Latitude	Longitude	Motion (mph)	Wind Speed (MPH)	Central Pressure (in.)	74 mph NE	74 mph SE	74 mph SW	74 mph NW	58 mph NE	58 mph SE	58 mph SW	58 mph NW	39 mph NE	39 mph SE	39 mph SW	39 mph NW	Eye diam	Eye wall
27.0	-77.3	350/12	115	28.04	70	60	25	50	110	100	50	75	250	200	125	160	18	9

Watches and Warnings

Hurricane Warning from Pamilco-a, NC to Pamlico-b, NC
Hurricane Warning from Albemarle-a, NC to Albemarle-b, NC
Hurricane Warning from Surf City, NC to NC/VA State Line, NC
Hurricane Warning from Little River Inlet, SC to Surf City, NC
Tropical Storm Warning from Edisto Beach, SC to Little River Inlet, SC
Hurricane Watch from Delaware Bay-a, DE to Delaware Bay-b, DE
Hurricane Watch from NC/VA State Line, NC to Sandy Hook, NJ

Official Forecast

Hour	Date (UTC)	Time (UTC)	Latitude	Longitude	Wind Speed (MPH)	74 mph NE	74 mph SE	74 mph SW	74 mph NW	58 mph NE	58 mph SE	58 mph SW	58 mph NW	39 mph NE	39 mph SE	30 mph SW	39 mph NW
Initial	08/25/2011	2100	27	-77.3	115	070	060	025	050	110	100	050	075	250	200	125	160
12	08/26/2011	0600	28.7	-77.8	115	070	060	025	050	110	100	050	075	250	200	125	160
24	08/26/2011	1800	30.6	-77.8	121	070	060	025	050	110	100	050	075	250	200	125	160
36	08/27/2011	0600	32.5	-77.4	115	070	060	025	050	110	100	050	075	250	200	125	160
48	08/27/2011	1800	34.5	-76.9	109					120	120	060	075	270	240	140	140
72	08/28/2011	1800	39.8	-74.6	86					120	120	060	075	270	270	140	140
96	08/29/2011	1800	48.5	-68	58												
120	08/30/2011	1800	56	-54	52												

Strike Probabilities for Morehead City, NC

TOTAL	Next 24 hours	24 - 36 hours	36- 48 hours	48-72 hours
23	0	13	9	1

Surge Probabilities for Morehead City, NC (3 mi. Southeast)

5 Foot Storm Surge	10 Foot Storm Surge	15 Foot Storm Surge	20 Foot Storm Surge
16%	0%	0%	0%

Forecast Impact Summary for Morehead City, NC

Max Wind (avg/gust)	Max Wind Date/Time	CPA	Rain		Arr. hrs.	Time of arrival	Time of departure	Duration
109 / 136 mph.	Saturday, 08/27/2011 14:00 EDT	5 mi.	12.4"	39 mph	25	08/26/2011 18:00 EDT	08/28/2011 03:30 EDT	34
				58 mph	36	08/27/2011 05:30 EDT	08/27/2011 20:30 EDT	16
				74 mph	40	08/27/2011 09:00 EDT	08/27/2011 18:00 EDT	10

Forecast Impact Detail

Date / Time	Time of Day	Wind Speed (avg/gust)	Wind Dir. (degs.)	Distance to 39 mph winds (mi.)	Distance to 58 mph winds (mi.)	Distance to 74 mph winds (mi.)	Distance to center (mi.)	Comments
Friday, 08/26/2011 18:00 EDT	DAY	040/049 mph	078		0135	0174	0246	Minor damage
Friday, 08/26/2011 18:30 EDT	DAY	040/050 mph	078		0129	0169	0242	Minor damage
Friday, 08/26/2011 19:00 EDT	DAY	041/051 mph	078		0123	0164	0236	Minor damage
Friday, 08/26/2011 19:30 EDT	DAY	042/052 mph	078		0117	0158	0230	Minor damage
Friday, 08/26/2011 20:00 EDT	NIGHT	043/053 mph	078		0112	0152	0225	Minor damage
Friday, 08/26/2011 20:30 EDT	NIGHT	043/054 mph	078		0106	0146	0219	Minor damage
Friday, 08/26/2011 21:00 EDT	NIGHT	044/055 mph	078		0100	0140	0213	Minor damage
Friday, 08/26/2011 21:30 EDT	NIGHT	045/056 mph	078		0096	0136	0208	Minor damage
Friday, 08/26/2011 22:00 EDT	NIGHT	046/057 mph	078		0090	0130	0203	Minor damage
Friday, 08/26/2011 22:30 EDT	NIGHT	046/058 mph	078		0084	0124	0197	Minor damage
Friday, 08/26/2011 23:00 EDT	NIGHT	047/059 mph	078		0078	0119	0191	Minor damage
Friday, 08/26/2011 23:30 EDT	NIGHT	048/060 mph	079		0073	0113	0185	Minor damage
Saturday, 08/27/2011 00:00 EDT	NIGHT	049/061 mph	079		0068	0108	0181	Minor damage
Saturday, 08/27/2011 00:30 EDT	NIGHT	050/062 mph	079		0062	0102	0175	Minor damage
Saturday, 08/27/2011 01:00 EDT	NIGHT	050/063 mph	079		0056	0097	0169	Minor damage
Saturday, 08/27/2011 01:30 EDT	NIGHT	051/064 mph	079		0051	0091	0164	Minor damage
Saturday, 08/27/2011 02:00 EDT	NIGHT	052/065 mph	079		0045	0085	0158	Minor damage
Saturday, 08/27/2011 02:30 EDT	NIGHT	053/066 mph	079		0038	0078	0152	Minor damage
Saturday, 08/27/2011 03:00 EDT	NIGHT	054/067 mph	079		0032	0073	0146	Minor damage
Saturday, 08/27/2011 03:30 EDT	NIGHT	054/068 mph	079		0026	0067	0140	Minor damage
Saturday, 08/27/2011 04:00 EDT	NIGHT	055/069 mph	079		0020	0061	0135	Minor damage
Saturday, 08/27/2011 04:30 EDT	NIGHT	056/070 mph	080		0014	0054	0129	Minor damage
Saturday, 08/27/2011 05:00 EDT	NIGHT	057/071 mph	080		0008	0048	0123	Minor damage
Saturday, 08/27/2011 05:30 EDT	NIGHT	058/072 mph	080		0002	0043	0117	Minor damage
Saturday, 08/27/2011 06:00 EDT	NIGHT	060/075 mph	080			0036	0111	Minor damage
Saturday, 08/27/2011 06:30 EDT	NIGHT	062/078 mph	080			0030	0105	Minor damage
Saturday, 08/27/2011 07:00 EDT	DAY	065/081 mph	080			0024	0099	Minor damage
Saturday, 08/27/2011 07:30 EDT	DAY	067/084 mph	081			0018	0093	Minor damage
Saturday, 08/27/2011 08:00 EDT	DAY	069/087 mph	081			0012	0088	Minor damage
Saturday, 08/27/2011 08:30 EDT	DAY	072/090 mph	081			0006	0082	Minor damage
Saturday, 08/27/2011 09:00 EDT	DAY	074/093 mph	082				0076	Minimal damage
Saturday, 08/27/2011 09:30 EDT	DAY	075/093 mph	082				0070	Minimal damage
Saturday, 08/27/2011 10:00 EDT	DAY	076/095 mph	082				0064	Minimal damage
Saturday, 08/27/2011 10:30 EDT	DAY	078/098 mph	083				0059	Minimal damage
Saturday, 08/27/2011 11:00 EDT	DAY	081/102 mph	084				0053	Minimal damage
Saturday, 08/27/2011 11:30 EDT	DAY	085/106 mph	085				0047	Minimal damage
Saturday, 08/27/2011 12:00 EDT	DAY	090/112 mph	086				0040	Minimal damage
Saturday, 08/27/2011 12:30 EDT	DAY	095/119 mph	087				0035	Minimal damage
Saturday, 08/27/2011 13:00 EDT	DAY	100/125 mph	089				0029	Moderate damage
Saturday, 08/27/2011 13:30 EDT	DAY	106/132 mph	092				0023	Moderate damage
Saturday, 08/27/2011 14:00 EDT	DAY	109/136 mph	104				0018	* Eye Wall *, Moderate damage
Saturday, 08/27/2011 14:30 EDT	DAY	000/000 mph	000				0010	* Eye *

Date / Time	Time of Day	Wind Speed (avg/gust)	Wind Dir. (degs.)	Distance to 39 mph winds (mi.)	Distance to 58 mph winds (mi.)	Distance to 74 mph winds (mi.)	Distance to center (mi.)	Comments
Saturday, 08/27/2011 15:00 EDT	DAY	000/000 mph	000				0005	* Eye *
Saturday, 08/27/2011 15:30 EDT	DAY	000/000 mph	000				0008	* Eye *
Saturday, 08/27/2011 16:00 EDT	DAY	107/134 mph	263				0015	* Eye Wall *, Moderate damage
Saturday, 08/27/2011 16:30 EDT	DAY	101/126 mph	255				0023	Moderate damage
Saturday, 08/27/2011 17:00 EDT	DAY	088/110 mph	257				0031	Minimal damage
Saturday, 08/27/2011 17:30 EDT	DAY	079/098 mph	259				0039	Minimal damage
Saturday, 08/27/2011 18:00 EDT	DAY	074/093 mph	260				0047	Minimal damage
Saturday, 08/27/2011 18:30 EDT	DAY	072/090 mph	260			0005	0055	Minor damage
Saturday, 08/27/2011 19:00 EDT	DAY	069/086 mph	261			0013	0063	Minor damage
Saturday, 08/27/2011 19:30 EDT	DAY	066/082 mph	261			0022	0071	Minor damage
Saturday, 08/27/2011 20:00 EDT	NIGHT	062/078 mph	262			0030	0079	Minor damage
Saturday, 08/27/2011 20:30 EDT	NIGHT	059/074 mph	262			0038	0088	Minor damage
Saturday, 08/27/2011 21:00 EDT	NIGHT	057/071 mph	262		0005	0046	0096	Minor damage
Saturday, 08/27/2011 21:30 EDT	NIGHT	056/070 mph	262		0013	0054	0104	Minor damage
Saturday, 08/27/2011 22:00 EDT	NIGHT	054/068 mph	262		0022	0062	0112	Minor damage
Saturday, 08/27/2011 22:30 EDT	NIGHT	053/066 mph	263		0030	0070	0120	Minor damage
Saturday, 08/27/2011 23:00 EDT	NIGHT	051/064 mph	263		0038	0078	0128	Minor damage
Saturday, 08/27/2011 23:30 EDT	NIGHT	050/063 mph	263		0046	0086	0136	Minor damage
Sunday, 08/28/2011 00:00 EDT	NIGHT	049/061 mph	263		0054	0094	0144	Minor damage
Sunday, 08/28/2011 00:30 EDT	NIGHT	047/059 mph	263		0062	0102	0152	Minor damage
Sunday, 08/28/2011 01:00 EDT	NIGHT	046/057 mph	263		0070	0111	0160	Minor damage
Sunday, 08/28/2011 01:30 EDT	NIGHT	044/056 mph	263		0078	0119	0168	Minor damage
Sunday, 08/28/2011 02:00 EDT	NIGHT	043/054 mph	263		0086	0127	0176	Minor damage
Sunday, 08/28/2011 02:30 EDT	NIGHT	042/052 mph	263		0094	0135	0184	Minor damage
Sunday, 08/28/2011 03:00 EDT	NIGHT	040/051 mph	263		0102	0143	0192	Minor damage
Sunday, 08/28/2011 03:30 EDT	NIGHT	039/049 mph	263		0112	0152	0200	Minor damage